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Score: 23/40 (57.50%)

Code: 1811

1. Which type of compressor is used in window air conditioner?

- A) Belt drive
B) Open type (Incorrect)
C) **Sealed type**
D) Swash plate

2. Which type of condenser is used in window air conditioner?

- A) **Fins and tube (Correct)**
B) Plate and tube
C) Plate and coil
D) Bare tube

3. What is the cooling capacity of 1 TR in K Cal / hr?

- A) **3000**
B) 4000
C) 5000
D) 6000 (Incorrect)

4. Which type of expansion valve is used in window air conditioner?

- A) **Capillary tube**
B) Low side float valve (Incorrect)
C) Automatic expansion valve
D) Thermostatic expansion valve

5. Which type of evaporator is used in window air conditioner?

- A) Bare tube
B) Plate and tube
C) Fins and plate
D) **Fins and tube (Correct)**

6. Which material is used for making fins of condenser in a window air conditioner?

- A) Brass
B) Copper (Incorrect)
C) Cast iron
D) **Aluminium**

7. What is the cooling capacity of 0.5 TR in BTU / hr?

- A) **6000 (Correct)**
B) 12000
C) 18000
D) 24000

8. 1 Which control device is used to maintain the room air temperature?

- A) OLP
B) Relay
C) **Thermostat (Correct)**
D) Selector switch

9. Which relay is used in capacitor start, capacitor run (CSR) compressor motor?

- A) **Voltage relay (Correct)**
B) Current relay
C) Thermal relay
D) Amperage relay

10. Which safety device is used for compressor motor in window air conditioner?

- A) Relay
B) Starting capacitor
C) Running capacitor
D) **Over load protector (Correct)**

11. Which part of window AC removes dust particles from the room air?

- A) Strainer
B) **Air filter (Correct)**
C) Filter drier
D) Dehydrator

12. Which capacity of fan motor is used in 1Ton window air conditioner?

- A) 1/5 HP (Incorrect)
B) 1/10 HP
C) **1/16 HP**
D) 1/20 HP

13. Which capacitor is connected in series with starting winding of CSR motor during operation?

- A) Fan capacitor
B) **Run capacitor**
C) Start capacitor (Incorrect)
D) No capacitor is connected

14. What is the value of running capacitor used for 1.5 TR window air conditioner?

- A) **36 MFD (Correct)**
B) 40 MFD
C) 80 MFD
D) 100 MFD

15. What is the value of starting capacitor used for 1TR window air conditioner?

- A) 40 MFD
B) 60 MFD
C) **80 MFD (Correct)**
D) 100 MFD

16. What is the purpose of relay used in window air conditioner?

- A) **Disconnect the starting capacitor (Correct)**
B) Disconnect the running capacitor
C) Disconnect the fan capacitor
D) Disconnect the winding

17. Which is increased by the fins of condenser tubes in window air conditioner?

- A) **Heat transfer rate**
B) Power consumption
C) Discharge pressure (Incorrect)
D) Refrigerant flow rate

18. What is the purpose of operating the fan motor first and then the compressor motor in Air conditioners?

- A) Cool the coils first by fan
B) Cool the compressor by fan (Incorrect)
C) Minimise the noise of motors
D) **Stop the high starting current by both motors**

19. Which type of fan motor is used in window air conditioner?

- A) Three phase single shaft motor
B) Single phase single shaft motor
C) Three phase double end shaft motor
D) **Single phase double end shaft motor (Correct)**

20. Which winding of compressor motor is directly connected across voltage relay coil?

- A) Main winding (Incorrect)
B) **Starting winding**
C) Running winding
D) Auxiliary winding

21. Where the normally closed contacts are internally connected in voltage relay?

- A) Across 1 and 5
B) Across 2 and 5 (Incorrect)
C) **Across 1 and 2**
D) Across 2 and 4

22. Which is indicated by the arrow mark on filter drier component?

- A) Flow direction of air
B) Position of capillary tube
C) **Flow direction of refrigerant (Correct)**
D) Arrangement of desiccant and filter

23. What is the area of room cooled by 1ton window air conditioner?

- A) 5000 sq.ft
B) 2000 sq.ft
C) **1000 sq.ft**
D) 3000 sq.ft (Incorrect)

24. What is the capacity of compressor motor used in 1Ton window air conditioner?

- A) 0.50 HP (Incorrect)
B) **0.75 HP**
C) 0.95 HP
D) 1.00 HP

25. Which device is used to exhaust the room air in window AC?

- A) **Damper (Correct)**
B) Air filter
C) Filter drier
D) Air washer

26. Where the filter drier is installed in window AC refrigerant circuit?

- A) Discharge line
B) Suction line
C) Service line
D) **Liquid line (Correct)**

27. Which winding has high inductance value in CSR

compressor motor?

- A) Common winding
B) **Running winding (Correct)**
C) Starting winding
D) Auxiliary winding

28. Where the relay coil is internally connected in voltage relay?

- A) Across 1 and 2
B) Across 5 and 1
C) **Across 5 and 2 (Correct)**
D) Across 2 and 4

29. What is the value of starting capacitor used for 1.5TR capacity window air conditioner?

- A) 40 to 60 MFD
B) **80 to 100 MFD (Correct)**
C) 130 to 150 MFD
D) 150 to 160 MFD

30. Which stabilizer capacity is used for 1 Ton window air conditioner?

- A) 2 KVA
B) **3 KVA**
C) 4 KVA (Incorrect)
D) 5 KVA

31. What is the reason for Compressor does not start ?

- A) Defective fresh air damper
B) Defective oscillation motor
C) Defective fan motor
D) **Defective OLP (Correct)**

32. How to neutralise the concentration of leaked ammonia from air

- A) Recover ammonia from air (Incorrect)
B) **Spraying a lot of water**
C) Shut down the plant
D) Spray Hydrochloric acid

33. What is the reason for excessive frost on evaporator coil in window AC?

- A) Evaporator fins not blocked by dust
B) Blower rotating at higher speed
C) **Air filter blocked completely**
D) More air circulation in evaporator (Incorrect)

34. What is the reason for Very high condenser temperature in a window air conditioner?

- A) Water splashes condenser
B) More air flows into the condenser
C) Fan motor working in good condition (Incorrect)
D) **Dust accumulated in the condenser fins**

35. What is the reason for the compressor motor burn out in a window air conditioner?

- A) Defective fan capacitor
B) Defective fan motor
C) Defective blower
D) **Defective OLP (Correct)**

36. What is the remedy for the defective OLP in a window air conditioner?

- A) Repair the OLP
C) Remove the parts
- B) Replace the OLP (Correct)**
D) Repair the heater element

37. What is the reason for the compressor does not start but the fan motor works normally in window AC?

- A) Defective blower
C) Defective fan capacitor
- B) Defective fan motor
D) Defective compressor motor (Correct)

38. What is the remedy to remove moisture from the window AC system?

- A) Over gas charge in the system
C) Clean the evaporator fins
- B) Evacuate the system deeply (Correct)**
D) Clean the condenser fins

39. What is the cause of reduced supply air throw though air filter is clean in window AC?

- A) No frost in the evaporator
C) Dust accumulated in the condenser
- B) Frost accumulated in the evaporator (Incorrect)**
D) No dust accumulated in the evaporator

40. What is the effect of sensing higher temperature by thermistor NTC?

- A) Resistance increases
C) Resistance becomes zero
- B) Resistance decreases (Correct)**
D) Resistance becomes infinity